

L5 ANSWER 27 OF 97 CA COPYRIGHT 2001 ACS  
 AN 120:114777 CA  
 TI Spherical shell-form heat **insulating** material and its  
 manufacture  
 IN Imai, Hiroshi; Yamamoto, Kimiji; Hoshino, Isao  
 PA Kunnetsupu Setsukai Kogyo Kk, Japan; Tokyo Yogyo Kk; Sobue Kuree Shoji Kk  
 SO Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C04B032-00  
 ICS B01J002-00; C04B038-06  
 CC 57-6 (Ceramics)  
 Section cross-reference(s): 55

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05310464	A2	19931122	JP 1992-143629	19920511
AB	Spherical shell-form heat <b>insulating</b> material esp. for applying onto the surface of molten steel is manufd. from MgO component powder, CaO component powder, and SiO2 component powder. A raw powder mix contg. CaO 20-40, MgO 30-70, and SiO2 10-30 wt.% is coated on spherical pellets of polystyrene foam and sintered to obtain hollow spherical heat <b>insulating</b> material.				
ST	<b>calcia</b> magnesia <b>silica</b> thermal <b>insulator</b>				
IT	Thermal <b>insulators</b> (spherical shell-form, contg. magnesia and <b>silica</b> and <b>calcia</b> , for covering molten steel)				
IT	9003-53-6, Polystyrene RL: USES (Uses) (foam, in manuf. of spherical shell-form heat <b>insulating</b> material contg. magnesia and <b>silica</b> and <b>calcia</b> )				
IT	1305-78-8, <b>Calcium carbonate</b> , uses 1309-48-4, Magnesia, uses 7631-86-9, <b>Silica</b> , uses RL: USES (Uses) (heat <b>insulating</b> material contg., spherical shell-form, for covering molten steel)				
IT	471-34-1, Calcium carbonate, uses 13717-00-5, Magnesite 13983-17-0, <b>Wollastonite</b> RL: USES (Uses) (in manuf. of spherical shell-form heat <b>insulating</b> material				